



Faculty Details Proforma Dr Neeraj Dohare



Title	Dr.	First Name	Neeraj	Last Name	Dohare	Photograph
Designation	Assistant Professor					
Address	44-C, Fourth Floor, Sarai Jullena, Near Escort Hospital, New Delhi-110025					
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Residence						
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Web Page						
Educational Qualification						
Degree	Institution				Year	
Ph.D.	Jamia Millia Islamia, New Delhi				2019	
M.Sc.	Bundelkhand University, Jhansi				2011	
B.Sc.	Bundelkhand University, Jhansi				2009	
Career Profile						
1	Assistant Professor	Daulat Ram College, University of Delhi		Jan-2018 to Sep-2022 Ad-hoc		
2	Assistant Professor Permanent	Daulat Ram College, University of Delhi		Oct-2022 to Onwards		
Administrative Assignments						
1. Member of Eco club 2018-2019.						
2. Member of college discipline committee 2019-till now.						
3. Member of college disaster management committee 2021-till now.						
4. Co-convener of college prize committee 2022-23.						
5. Member of college hostel committee 2023-till now.						

6. Member of college canteen committee 2023-till now.

Areas of Interest / Specialization

My research is based on the interaction of non-steroidal anti-inflammatory drugs with model proteins in aqueous medium using the fluorescence, UV-visible, time-resolved and circular dichroism spectroscopy etc. I have also worked with mixed micellization of surfactant and ionic liquids in presence of amphiphilic drug medium as well as protein.

Subjects Taught

1. Biomolecules (role of every biomolecule in biological system).
2. Biochemical techniques (Principles and applications in biochemistry)
3. Enzymology
4. Human Physiology
5. Plant Physiology

Research Guidance

Publications Profile

1. Rajan Patel, Birajpal Singh, Anurag Sharma, Juhi Saraswat, *Neeraj Dohare*, Mehraj ud din Parray, Md Abrar Siddiquee, Amer M Alanazi, Azmat Ali Khan. Interaction and esterase activity of albumin serums with orphenadrine: A spectroscopic and computational approach. Journal of Molecular Structure. 2021;1239: 130522.

2. **Neeraj Dohare**, Md Abrar Siddiquee, Mehrajud din Parray, Amit Kumar, Rajan Patel. Esterase activity and interaction of human hemoglobin with diclofenac sodium: A spectroscopic and molecular docking study. *Journal of Molecular Recognition*. 2020;33(8): e2841.
3. **Neeraj Dohare**, Mehrajud din Parray, Md. Abrar Siddiquee, Abbul Bashar Khan, Khalid Ahmed Alzahrani, Abdulmohsen Ali Alshehri, Maqsood Ahmad Malik, Rajan Patel. Effect of adiphene hydrochloride on the structure of bovine serum albumin: Spectroscopic and docking study. *Journal of Molecular Structure*. 2019; 1201:127168.
4. Manasa Kongot, **Neeraj Dohare**, Dinesh S Reddy, Neha Pereira, Rajan Patel, Mahesh Subramanian, Amit Kumar. In vitro apoptosis-induction, antiproliferative and BSA binding studies of aoxidovanadium (V) complex. *Journal of Trace Elements in Medicine and Biology*. 2019; 51:176-190.
5. Rajan Patel, Neha Maurya, Mehraj-ud-din Parray, Nida Farooq, Abrar Siddique, Kanak Lata Verma, **Neeraj Dohare**. Esterase activity and conformational changes of bovine serum albumin toward interaction with mephedrone: Spectroscopic and computational studies. *Journal of Molecular Recognition*. 2018;31(11): e2734.
6. Manasa Kongot, **Neeraj Dohare**, Vishal Singh, Dinesh S Reddy, Nitin Kumar Singhal, Rajan Patel, Amit Kumar. A novel biocompatible NiII tethered moiety as a glucose uptake agent and a hit against methicillin-resistant *Staphylococcus aureus*. *European Journal of Pharmaceutical Sciences*. 2018; 123:335-349.
7. Mehraj-ud-din Parray, Muzaffar Ul Hassan Mir, **Neeraj Dohare**, Neha Maurya, Abbul Bashar Khan, Mahendra S Borse, Rajan Patel. Effect of cationic gemini surfactant and its monomeric counterpart on the conformational stability and esterase activity of human serum albumin. *Journal of Molecular Liquids*. 2018; 260:65-77.

8. Manasa Kongot, Neha Maurya, *Neeraj Dohare*, Mehraj-ud-din Parray, Jitendra Kumar Maurya, Amit Kumar, Rajan Patel. Enthalpy-driven interaction between dihydropyrimidine compound and bovine serum albumin: a spectroscopic and computational approach. *Journal of Biomolecular Structure and Dynamics*. 2018;36(5):1161-1170.
9. Jitendra Kumar Maurya, Abbul Bashar Khan, *Neeraj Dohare*, Anwar Ali, Amit Kumar, Rajan Patel. Effect of aromatic amino acids on the surface properties of 1-dodecyl-3-(4-(3-dodecylimidazolidin-1-yl) butyl) imidazolidine bromide gemini surfactant. *Journal of Dispersion Science and Technology*. 2018;39(2):174-180.
10. *Neeraj Dohare*, Abbul Bashar Khan, Neha Maurya, Sonu Thakur, Fareeda Athar, Prashant Singh, Rajan Patel. An insight into the binding of aceclofenac with bovine serum albumin at physiological condition: A spectroscopic and computational approach. *Journal of Biomolecular Structure and Dynamics*. 2018;36(2):398-406.
11. Abbul Bashar Khan, Farooq Ahmed Wani, *Neeraj Dohare*, Mehraj ud din Parray, Prashant Singh, Rajan Patel. Ionic liquid influenced synergistic interaction between amitriptyline hydrochloride and cetyltrimethylammonium bromide. *Journal of Chemical & Engineering Data*. 2017;62(10):3064-3070.
12. Meena Kumari, *Neeraj Dohare*, Neha Maurya, Ravins Dohare, Rajan Patel. Effect of 1-methyl-3-octyleimidazolium chloride on the stability and activity of lysozyme: a spectroscopic and molecular dynamics studies. *Journal of Biomolecular structure and dynamics*. 2017;35(9):2016-2030.
13. Taruna Sharma, *Neeraj Dohare*, Meena Kumari, Upendra Kumar Singh, Abbul Bashar Khan, Mahendra S Borse, Rajan Patel. Comparative effect of cationic gemini surfactant and its monomeric counterpart on the conformational stability and activity of lysozyme. *RSC Advances*.

2017;7(27):16763-16776.

14. Jitendra Kumar Maurya, Muzaffar Ul Hassan Mir, Neha Maurya, **Neeraj Dohare**, Anwar Ali, Rajan Patel. A spectroscopic and molecular dynamic approach on the interaction between ionic liquid type gemini surfactant and human serum albumin. *Journal of Biomolecular Structure and Dynamics*. 2016;34(10):2130-2145.

15. **Neeraj Dohare**, Abbul Bashar Khan, Fareeda Athar, Sonu Chand Thakur, Rajan Patel. Urea-induced binding between diclofenac sodium and bovine serum albumin: a spectroscopic insight. *Luminescence*. 2016;31(4):945-951.

16. Rajan Patel, **Neeraj Dohare**, Abbul Bashar Khan. Interfacial and wetting behavior of cationic, anionic and nonionic surfactants in the absence and presence of lysozyme. *Chemistry & Chemical Technology*. 2016; 10(2): 179-185.

17. Rajan Patel, Meena Kumari, **Neeraj Dohare**, Abbul Bashar Khan, Prashant Singh, Maroof Ali, Amit Kumar. Interaction between pyrrolidinium based ionic liquid and bovine serum albumin: a spectroscopic and molecular docking insight. *Biochemistry Analytical Biochemistry*. 2016;5(265):2161-1009.

18. Rajan Patel, Abbul Bashar Khan, **Neeraj Dohare**, Mohd. Maroof Ali, Hament Kumar Rajor. Mixed micellization and interfacial properties of ionic liquid-type imidazolium gemini surfactant with amphiphilic drug amitriptyline hydrochloride and its thermodynamics. *Journal of Surfactants and Detergents*. 2015;18(5):719-28.

19. Upendra Kumar Singh, **Neeraj Dohare**, Prabhash Mishra, Prashant Singh, Himadri B Bohidar, Rajan Patel. Effect of pyrrolidinium based ionic liquid on the channel form of gramicidin in lipid vesicles. *Journal of Photochemistry and Photobiology B: Biology*. 2015; 149:1-8.

20. Jitendra Kumar Maurya, Muzaffar Ul Hassan Mir, Upendra Kumar Singh, Neha Maurya,

Neeraj Dohare, Seema Patel, Anwar Ali, Rajan Patel. Molecular investigation of the interaction between ionic liquid type gemini surfactant and lysozyme: A spectroscopic and computational approach. *Biopolymers*. 2015;103(7):406-415.

21. Abbul Bashar Khan, *Neeraj Dohare*, Rajan Patel Mixed Micellization Study of Adiphenine hydrochloride with 1-Decyl-3-methylimidazolium chloride. *World Academy of Science, Engineering and Technology, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering*. 2015;9(3):490-494.

22. Abbul Bashar Khan, Maroof Ali, *Neeraj Dohare*, Prashant Singh, Rajan Patel. Micellization behavior of the amphiphilic drug promethazine hydrochloride with 1-decyl-3-methylimidazolium chloride and its thermodynamic characteristics. *Journal of Molecular Liquids*. 2014; 198:341-346.

Conference Organization / Presentation (in the last three years)

1. International Interdisciplinary Science Conference (I-ISC, 2012) On Protein Folding and Diseases (8-10 March 2012), Jamia Millia Islamia (Poster Presentation).
2. SYSCON-2013 Interfacing Basic and Translational Research held on (23th August 2013), Organized by Society of Young Scientists (SYS) All India Institute of Medical Sciences, New Delhi. (Poster Presentation).
3. National Conference on Recent Trends in Protein Structural Biology (NCRTPSB-2013) Organized by Jamia Millia Islamia, New Delhi. (16-18 August 2013), (Poster Presentation).
4. National Symposium on Chemistry (22 March, 2014), Aligarh Muslim University (Poster Presentation).
5. National Conference on Nanotechnology and Renewable Energy (NCNRE-14) Organized by Jamia Millia Islamia (28-29 April, 2014), (Poster Presentation).

6. 4th National Symposium on Recent Advances in Analytical Sciences and Application. (9-10 February, 2015), Organized by Jamia Hamdard, (Poster Presentation).
7. National Symposium on Biophysics and Golden Jubilee Meeting of The Indian Biophysical Society (14-17 February, 2015), Jamia Millia Islamia (Poster Presentation).
8. Conference On Microscopy in Materials Science and Biomimetic Technology (26-28 February, 2015), DMSRDE, Kanpur (Poster Presentation).
9. National Seminar on Innovative, Advance Research in Bio-medical and Environmental Dynamics (9-10 October, 2015), Dayal Singh College, University of Delhi (Poster Presentation).
10. National Conference on Interdisciplinary Approaches in Chemical Sciences (IACS-2015) (16 December, 2015), Jamia Millia Islamia (Poster presentation).
11. National Seminar on Biophysics (BIOPHYSIKA-2017) (16 March, 2017), Jamia Millia Islamia (Oral Presentation).
12. National Symposium and Workshop on Yoga and Meditation for the Holistic Well Being organized by Daulat Ram College, University of Delhi in collaboration with Defence Institute of Physiology and Allied Sciences (DIPAS), DRDO, Delhi, (7th March 2019), (Participate).

CONFERENCES AS PARTICIPANT

1. National Conference on Recent Trends in Molecular Virology (17-19 November, 2014), Jamia Millia Islamia (Participate).
2. National Symposium and Workshop on Yoga and Meditation for the Holistic Well Being organized by Daulat Ram College, University of Delhi in collaboration with Defence Institute of Physiology and Allied Sciences (DIPAS), DRDO, Delhi, (7th March 2019), (Participate).

ORGANIZING COMMITTEE MEMEBER

1. National Symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society (2015). Jamia Millia Islamia.
2. Inspire Science Camp sponsors by Department of Science and Technology, GOI, Daulat Ram College (2018). Daulat Ram College, University of Delhi.
3. DHARA The Eco Club of Daulat Ram College, University of Delhi.
4. Sport Team Manager of Biochemistry Department, Daulat Ram College, University of Delhi.
5. National Workshop on Water and Waste Management, Daulat Ram College, University of Delhi.
6. National Symposium and Workshop on Yoga and Meditation for the Holistic Well Being organized by Daulat Ram College, University of Delhi in collaboration with Defence Institute of Physiology and Allied Sciences (DIPAS), DRDO, Delhi, (7th March 2019).

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

1. Dr. B. R. Ambedkar University, Agra, BEST RESEARCH SCHOLAR AWARD-2023.
2. National Agriculture Development Co-operative Ltd. (NADCL), Under Ministry of cooperation, Zainakotte, Srinagar, (J&K), Government of India, YOUNG SCIENTIST AWARD-2019.
3. National Seminar on Biophysics (BIOPHYSIKA-2017) (16 March, 2017), Jamia Millia Islamia (Oral Presentation). FIRST PRIZE WINNER IN ORAL PRESENTATION.
4. National Conference on Interdisciplinary Approaches in Chemical Sciences (IACS-2015) (16 December, 2015), Jamia Millia Islamia (Poster presentation). FIRST PRIZE WINNER IN POSTER PRESENTATION.

Association with Professional Bodies

Other Activities